

LB000001

REDACTED

United States Environmental Protection Agency
Region 4



35TH AVENUE REMOVAL INVESTIGATION
BIRMINGHAM, ALABAMA
JEFF CROWLEY, ON-SCENE COORDINATOR

FIELD SAMPLING LOGBOOK

Book ____ of ____

Inclusive Dates: 11/08/12

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
(b) (6)	(6)	<u>OTIE</u> , Team Leader
		<u>OTIE</u>
		<u>OTIE</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

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Sampling Procedures and Methodology

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SED) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SESDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than (\leq) 5,000 square feet - the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than ($>$) 5,000 square feet and \leq ¼-acre - the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over ¼-acre in parcel lot size will be divided into ¼-acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under paved areas or under stationary fixed structures.

Grab sediment samples will be collected in accordance with EPA SED FBSTP Sediment Sampling (SESDPROC-200-R2) from any surface water drainage pathways located on individual properties, as directed by the OSC, and in and along the banks of the 34th Street North Ditch.

Each surface soil or sediment sample should be homogenized in a stainless steel bowl. One 8-ounce jar will be filled and the remaining sample material will be placed in zip-top bags for screening. Information identifying the location, sample, and date/time will be inscribed on each jar and zip-top bag.

All sample bags will be screened for metals in accordance with SED FBQSTP Field XRF Measurement (SESDPROC-107-R2) using a Niton XRF. The sample will be dried before sieving or analysis is performed. Once the sample has dried, the sample will be divided into two subsamples; one subsample will be sieved through a #10 screen (2 mm) and the other will be left unsieved. Once separated into sieved and unsieved samples, the zip-top bag will be compressed by folding over the excess plastic and removing as much air and space from the sample as possible. The XRF will be placed directly on the exterior of the compressed sample in the plastic zip-top bag to measure metals concentrations. Following XRF screening, the unsieved portion of the sample material will be containerized into one 8-ounce jars and the sieved portion of the sample will be containerized into another 8-ounce jar.

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Start Time air samples

0924 on metals at 3469 + 3471 33rd St. North
mercury
PAHs

Stop time at 1326

Data RAM (004672)

Start time = 1002 > 3469 + 3471 33rd St. North
Stop time = 1144

Start time = 1244 - 3223 32nd Place North
Stop time = 1325

Based on the site DQOs the 8-ounce jars of surface soil and sediment samples should be submitted to PEL, Tampa, Florida (a NELAC certified laboratory) for low level PAH, and/or TCL SVOC, RCRA metals, PCB, and/or Hexavalent Chromium analysis. RCRA metals will be analyzed from both the sieved and unsieved portions of the sample. All other analysis will be conducted on the unsieved portion.

The location of each aliquot will also be logged in accordance with SESD FBQSTP Global Positioning System (SESDPROC- 110-R3) using a Trimble GPS.

A description of the color and texture of the aliquot material will be recorded in each box.

The **station ID** for each location will consist of seven characters, beginning with the six digit Property ID designation for the property followed by a alphabetic letter beginning with "A".

e.g. CV0001A would be the station ID for the front yard 5-pt composite sample collected at the property with Property ID CV0001.

The **sample ID** for each sample is the station ID with "CS" (composite soil), "GS" (grab soil), "SD" (sediment), or "SW" (surface water) appended, therefore, the sample ID for this sample would be CV0001A-CS. Co-located duplicates will be designated by appending a "D" to the end of the sample ID. Pan splits will be identified by appending an "SP" to the end of the sample ID.

(b) (6)

ADDRESS:

PROPERTY ID: CV0494

DATE: 11/08/12

ARRIVAL TIME: 0923

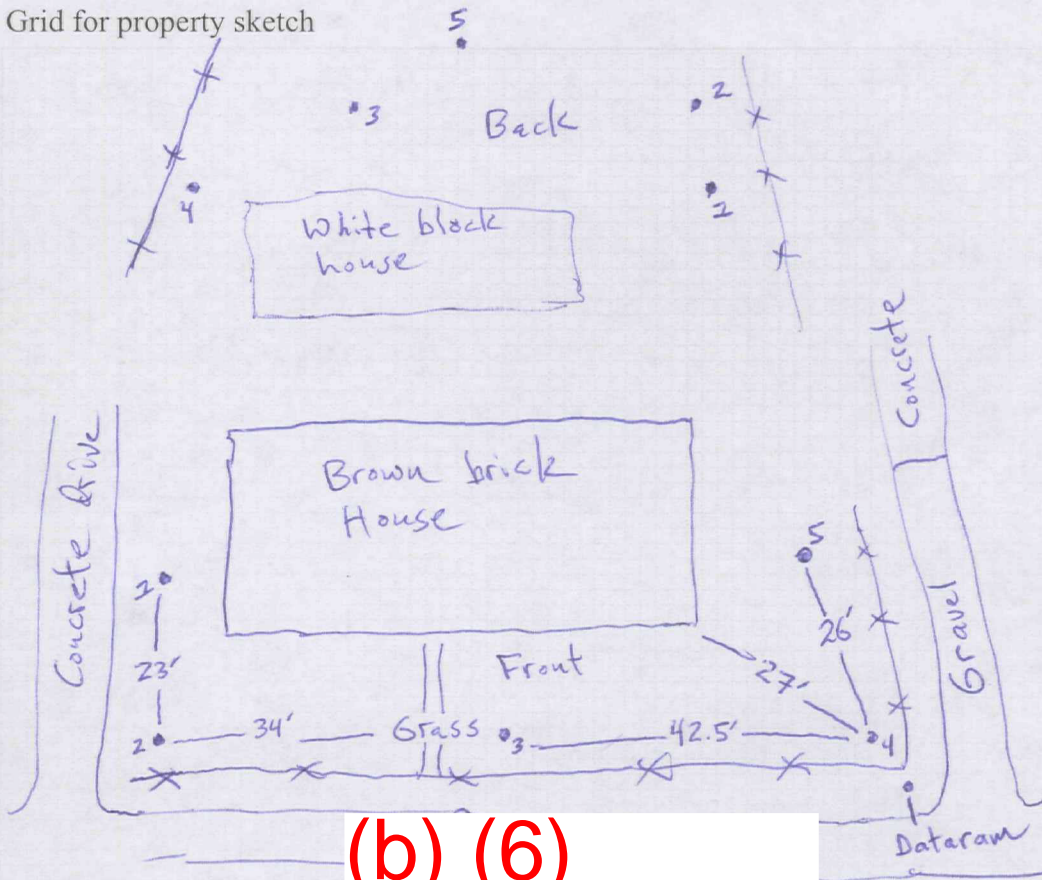
Other pertinent information (weather conditions, etc.):

Cloudy

PROPERTY COMMENTS:

Two dwellings on this property.

Grid for property sketch



(b) (6)

Distances

Front → Point # 1 to 2 is 23'
2 to 3 is 34'
3 to 4 is 42.5'
4 to 5 is 26'

Point # 4 is furthest
from house at 27'

Back → Point # 4 to 5 is 61.5'
3 to 5 is 32'
3 to 2 is 23'
1 to 2 is 23'

Point # 5 is furthest
from house at 69'

STATION ID: CV0494A SAMPLE ID: CV0494A-CS

SAMPLE COLLECTION TIME: 1105

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: _____		Logged? <u>Y</u> or N	
Aliquot #1: Latitude: <u>33.56036207</u>	N Longitude <u>86.80240625</u>	W	
Media description: _____			
Aliquot #2 Latitude: <u>33.56033370</u>	N Longitude <u>86.80247838</u>	W	
Media description: _____			
Aliquot #3: Latitude: <u>33.56026257</u>	N Longitude <u>86.80243073</u>	W	
Media description: _____			
Aliquot #4: Latitude: <u>33.56014536</u>	N Longitude <u>86.80239503</u>	W	
Media description: _____			
Aliquot #5: Latitude: <u>33.56020005</u>	N Longitude <u>86.80234885</u>	W	
Media description: _____			

STATION ID: CV0494B SAMPLE ID: CV0494B-CS

SAMPLE COLLECTION TIME: 1130

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: _____		Logged? <u>Y</u> or N	
Aliquot #1: Latitude: <u>33.56047556</u>	N Longitude <u>86.80198646</u>	W	
Media description: _____			
Aliquot #2 Latitude: <u>33.56051769</u>	N Longitude <u>86.80193203</u>	W	
Media description: _____			
Aliquot #3: Latitude: <u>33.56054977 RS</u>	N Longitude <u>86.80189677 RS</u>	W	
Media description: <u>3780</u> <u>99666</u>			
Aliquot #4: Latitude: <u>33.56055546</u>	N Longitude <u>86.80209313</u>	W	
Media description: _____			
Aliquot #5: Latitude: <u>33.56054977</u>	N Longitude <u>86.80189617</u>	W	
Media description: _____			

ADDRESS: _____

(b) (6)

PROPERTY ID: _____

CV0495

DATE: _____

11/08/12

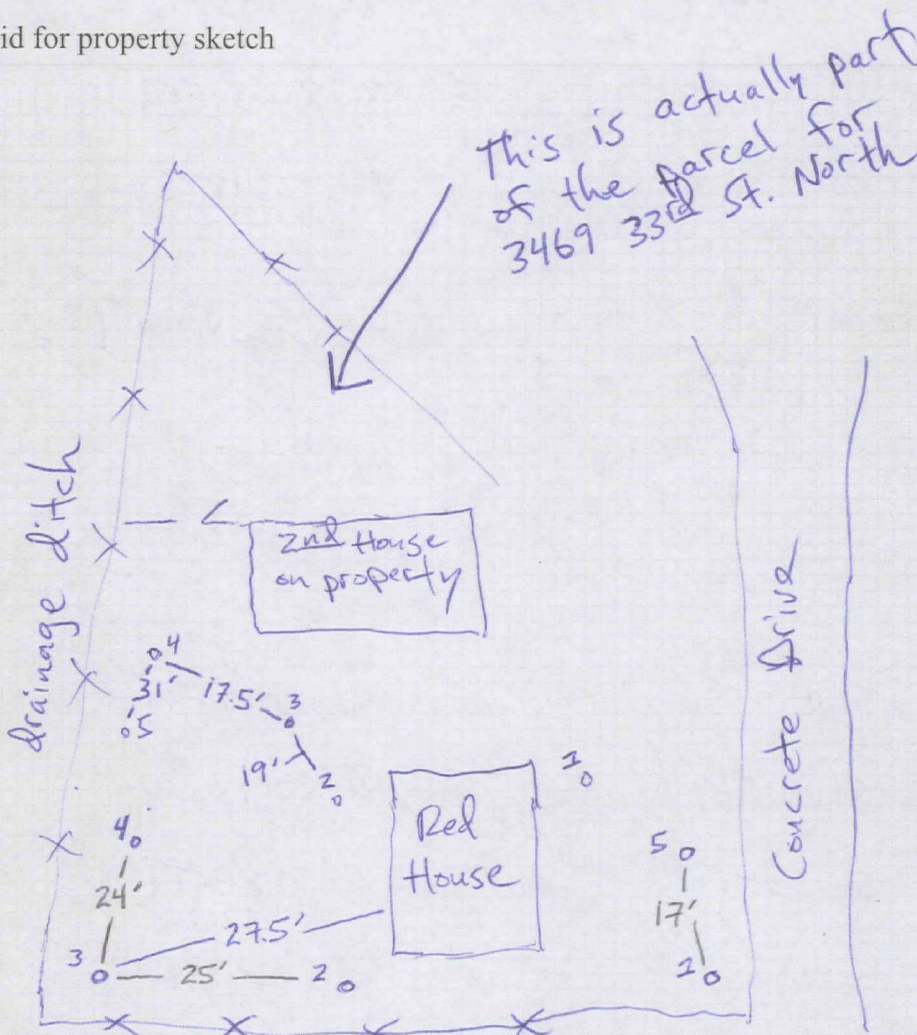
ARRIVAL TIME: _____

6923 RS
1055

Other pertinent information (weather conditions, etc.): _____

PROPERTY COMMENTS: _____

Grid for property sketch



Distances

(b) (6)

Front → Point #3 to building is 27.5'
#3 to 5 is 39'

Back → Point #4 to Red House is 37.5'
#2 to 1 is 18.5'

STATION ID: CV0495A SAMPLE ID: CV0495A-CS

SAMPLE COLLECTION TIME: 1020

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV0495A-CSD

GPS Coordinates: Trimble ☒ Instrument #: 020168 Logged? Y or N

Aliquot #1: Latitude: 33.56039850 N Longitude 86.80251301 W

Media description: _____

Aliquot #2 Latitude: 33.56050703 N Longitude 86.80253304 W

Media description: _____

Aliquot #3: Latitude: 33.56056946 N Longitude 86.80256779 W

Media description: _____

Aliquot #4: Latitude: 33.56056513 N Longitude 86.80249340 W

Media description: _____

Aliquot #5: Latitude: 33.56041834 N Longitude 86.80246497 W

Media description: _____

STATION ID: CV0495B SAMPLE ID: CV0495B-CS

SAMPLE COLLECTION TIME: 1045

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble ☒ Instrument #: 020168 Logged? Y or N

Aliquot #1: Latitude: 33.56046312 N Longitude 86.80233018 W

Media description: _____

Aliquot #2 Latitude: 33.56048073 N Longitude 86.80227070 W

Media description: _____

Aliquot #3: Latitude: 33.56051733 N Longitude 86.80222942 W

Media description: _____

Aliquot #4: Latitude: 33.56055821 N Longitude 86.80220169 W

Media description: _____

Aliquot #5: Latitude: 33.56056227 N Longitude 86.80230265 W

Media description: _____

ADDRESS:

(b) (6)

PROPERTY ID: CVO217

DATE:

11/08/12

ARRIVAL TIME:

1240

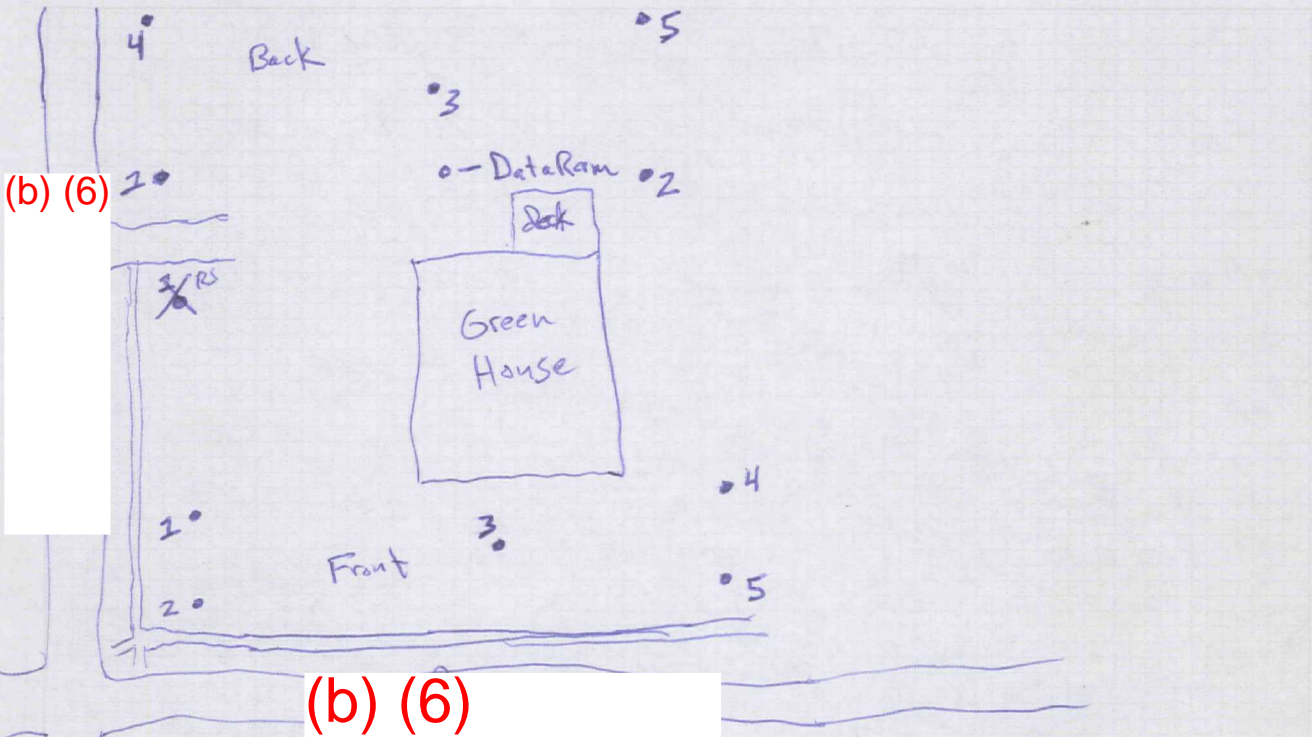
Other pertinent information (weather conditions, etc.):

Clear & Sunny

PROPERTY COMMENTS:

Chunks on coal mixed in the soil.

Grid for property sketch



Distances

Front → Point #4 to 5 is 14'
3 to 5 is 21'
2 to 3 is 22'
1 to 2 is 16'

Point #5 is
21' from house.

Back → Point #2 to 5 is 54'
1 to 5 is 70.5'
3 to 5 is 34'
4 to 5 is 32.5'

Point #5 is 68.5'
from house.

STATION ID: CV0217A SAMPLE ID: CV0217A-CS

SAMPLE COLLECTION TIME: 1300

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: _____		Logged? <u>Y</u> or N	
Aliquot #1: Latitude: <u>33.55528866</u>	N Longitude <u>86.80154095</u>	W	
Media description: <u>39984</u>			
Aliquot #2 Latitude: <u>33.55540186</u>	N Longitude <u>86.80159015</u>	W	
Media description: _____			
Aliquot #3: Latitude: <u>33.55534475</u>	N Longitude <u>86.80156917</u>	W	
Media description: _____			
Aliquot #4: Latitude: <u>33.55529173</u>	N Longitude <u>86.80154854</u>	W	
Media description: _____			
Aliquot #5: Latitude: <u>33.55528866</u>	N Longitude <u>86.80159065</u>	W	
Media description: _____			

STATION ID: CV0217B SAMPLE ID: CV0217B-CS

SAMPLE COLLECTION TIME: 1315

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: _____		Logged? <u>Y</u> or N	
Aliquot #1: Latitude: <u>33.55538402</u>	N Longitude <u>86.80134480</u>	W	
Media description: _____			
Aliquot #2 Latitude: <u>33.55528516</u>	N Longitude <u>86.80133053</u>	W	
Media description: _____			
Aliquot #3: Latitude: <u>33.55532817</u>	N Longitude <u>86.80125604</u>	W	
Media description: _____			
Aliquot #4: Latitude: <u>33.55536680</u>	N Longitude <u>86.80114771</u>	W	
Media description: _____			
Aliquot #5: Latitude: <u>33.55527220</u>	N Longitude <u>86.80114777</u>	W	
Media description: _____			

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